Read more about OBCLs at https://www.ars.usda.gov/office-of-international-research-programs/ overseas-biological-control-labs/

The U.S. Department of Agriculture's (USDA) Agricultural Research Service (ARS) has positioned itself to benefit U.S.

OVERSEAS BIOLOGICAL CONTROL agriculture with a collaborative network of LABORATORIES (OBCLs),

SAVING THE AG INDUSTRY MILLIONS.

OBCLs FOCUS PRIMARILY ON INVASIVE SPECIES

Invasive species are estimated to cost the U.S. agriculture industry more than \$100 billion per year

BIOLOGICAL CONTROL AGENTS are **INTRODUCED** natural enemies that are used to fight invasive species that severely damage crops.



Invasive species are pests or weeds not native to a certain area, where there are limited or no predators to control them, leaving them to reproduce & spread. damaging the environment.

OBCL collaborators can often find **BIOCONTROL AGENTS** in countries

not easily accessible to the U.S.















Montpellier FRANCE

Thessaloniki GREECE

\$3,109,068

Hurlingham ARGENTINA

\$581,213

Brisbane AUSTRALIA

\$417,712

Beijing \$92,066

ARS EXPENDITURES **FOR FY2021**

For every \$1 SPENT on biological control there is a net BENEFIT OF \$23



MELALEUCA

Threatened Everglades National Park and invaded CALIFORNIA and PUERTO RICO

Three biocontrol species discovered by scientists at the AUSTRALIAN BIOLOGICAL CONTROL **LABORATORY**

Biocontrol damaged trees produce 1% 0F THE SEEDS formed by undamaged trees



GIANT REED

SHOOT-GALLING WASPS from **FRANCE** were introduced along the RIO GRANDE RIVER to control the Giant Reed

Water savings valued at \$4.4 MILLION/YEAR

54% DECLINE in live biomass along RIO GRANDE RIVER, with partial recovery of native plants

WASP is now established in CENTRAL VALLEY, CA



WATERHYACINTH

Seriously chokes waterways throughout SOUTHERN US

Spread through FLORIDA, LOUISIANA. CALIFORNIA. **PUERTO RICO**

Four biocontrol species discovered by scientists from the ARGENTINE LAB

Return of investment estimated \$34 BENEFIT FOR \$1 INVESTMENT OF **BIOCONTROL**



ALLIGATORWEED

Seriously chokes waterways throughout SOUTHEAST US

Three biocontrol species established 1964-1971 discovered by scientists in ARGENTINA

By 1982 alligatorweed was only a minor problem

NO LONGER an important weed throughout much of historic range